"Consultancy services for preparation of DPR for the work of Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division"

Estimates

Transheight Consultants Pvt. Ltd. Bangalore

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work:Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division

Sl No	Description of item	Estimate Cost Rs.							20000000
		Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. P No. 143/ Item No. 19.1/ PWD SR 2018-19								
	RCC Drain	Cum							
	G Ramaiah Layout								
	1st Cross Road								
	LHS								
	RHS		1	50.5	1.1	1	55.55		
	2nd Cross Road		1	109	1.1	1	119.9		
	LHS								
	RHS		1	92.5	1.1	1	101.75		
	3rd Cross Road		1	113.9	1.1	1	125.29		
	LHS								
	RHS		1	138	1.1	1	151.8		
	4th Cross Road		1	128	1.1	1	140.8		
	LHS								
	RHS		1	119	1.1	1	130.9		
	4th A Cross Road		1	146.9	1.1	1	161.59		
	LHS								
	RHS		1	22	1.1	1	24.2		
	4th B Cross Road		1	25.5	1.1	1	28.05		
	LHS								
	RHS		1	44	1.1	1	48.4		
	Drain Desilt		1	47.5	1.1	1	52.25		
	G Ramaiah Layout								
	1st Cross Road								
	LHS								
	RHS		1	74.7	0.5	0.4	14.94		
	2nd Cross Road		1	8.9	0.5	0.4	1.78		
	LHS								
	RHS		1	37.5	0.5	0.3	5.63		
	3rd Cross Road		1	13.9	0.6	0.3	2.50		
	LHS								
	4th Cross Road		1	19	0.6	0.4	4.56		
	LHS								
	RHS		1	29	0.6	0.4	6.96		
			1	6.5	0.6	0.4	1.56		
						Cum	1178.41	211.79	249572.00
	Basic Rate	130.00							
	Loading and Unloading Charges	57.00							
	5km Lead	12.80							
	Sub total	199.80							
	Area Weightage @ 6%	11.99							
	Total	211.79							
2	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 408								
	RCC Drain	Cum							
	G.Ramaiah Layout								
	1st Cross Road		1	50.5	1.1	0.15	8.33		
	LHS		1	109	1.1	0.15	17.99		
	RHS								
	2nd Cross Road		1	92.5	1.1	0.15	15.26		
	LHS		1	113.9	1.1	0.15	18.79		
	RHS								
	3rd Cross Road		1	138	1.1	0.15	22.77		
	LHS		1	128	1.1	0.15	21.12		
	RHS								
	4th Cross Road		1	119	1.1	0.15	19.64		
	LHS		1	146.9	1.1	0.15	24.24		
	RHS								
	4th A Cross Road		1	22	1.1	0.15	3.63		
	LHS								

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	RHS								
	4th B Cross Road		1	25.5	1.1	0.15	4.21		
	LHS								
	RHS		1	44	1.1	0.15	7.26		
	Drain Bottom (Vent Concrete)		1	47.5	1.1	0.15	7.84		
	G Ramaiah Layout								
	1st Cross Road								
	LHS								
	RHS		1	74.7	0.55	0.15	6.16		
	2nd Cross Road		1	8.9	0.55	0.15	0.73		
	LHS								
	RHS		1	37.5	0.55	0.15	3.09		
	3rd Cross Road		1	13.9	0.55	0.15	1.15		
	LHS								
	4th Cross Road		1	19	0.55	0.15	1.57		
	LHS								
	RHS		1	29	0.55	0.15	2.39		
	Kerb PCC		1	6.5	0.56	0.15	0.55		
	1st Cross Road								
	LHS		1	90.3	0.2	0.1	1.81		
	RHS		1	109	0.2	0.1	2.18		
	2nd Cross Road								
	LHS		1	102.5	0.2	0.1	2.05		
	RHS		1	113.9	0.2	0.1	2.28		
	3rd Cross Road								
	LHS		1	157	0.2	0.1	3.14		
	RHS		1	128	0.2	0.1	2.56		
	4th Cross Road								
	LHS		1	119	0.2	0.1	2.38		
	RHS		1	146.9	0.2	0.1	2.94		
	4th A Cross Road								
	LHS		1	22	0.2	0.1	0.44		
	RHS		1	25.5	0.2	0.1	0.51		
	4th B Cross Road								
	LHS		1	44	0.2	0.1	0.88		
	RHS		1	47.5	0.2	0.1	0.95		
	Subash Chandra Bose Layout,Sai Nagar								
	5th Cross Road								
	LHS		1	115	0.2	0.1	2.30		
	RHS		1	115	0.2	0.1	2.30		
	6th Cross Road								
	LHS		1	125	0.2	0.1	2.50		
	RHS		1	120	0.2	0.1	2.40		
	3rd Cross Road BHEL Layout								
	RHS		1	120	0.2	0.1	2.40		
	Subash Chandra Bose Layout,Sai Nagar Main Rd								
	RHS		1	30	0.2	0.1	0.60		
						Cum	221.33	4479.56	991450.00
	Basic Rate	4,226.00							
	Area Weightage @ 6%	253.56							
	Total	4479.56							
3	KSRB 4.2.2 : Providing and laying in position **plain cement concrete of mix M20** withOPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.43cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc, complete excluding cost of stell as per MORTH specification NO. 1500, 1700, 2200. Including cost of materials, labour, HOM complete as per specifications. Item No. 37.59.2/ page no:271/PWD SR 2018-19								
	RCC Drain	Cum							
	G.Ramaiah Layout								
	Raft								
	1st Cross Road								
	LHS		1	50.5	0.9	0.15	6.82		
	RHS		1	109	0.9	0.15	14.72		
	2nd Cross Road								
	LHS		1	92.5	0.9	0.15	12.49		
	RHS		1	113.9	0.9	0.15	15.38		
	3rd Cross Road								
	LHS		1	138	0.9	0.15	18.63		
	RHS		1	128	0.9	0.15	17.28		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	4th Cross Road								
	LHS		1	119	0.9	0.15	16.07		
	RHS		1	146.9	0.9	0.15	19.83		
	4th A Cross Road								
	LHS		1	22	0.9	0.15	2.97		
	RHS		1	25.5	0.9	0.15	3.44		
	4th B Cross Road								
	LHS		1	44	0.9	0.15	5.94		
	RHS		1	47.5	0.9	0.15	6.41		
	Wall								
	1st Cross Road								
	LHS								
	RHS		2	50.5	0.15	0.55	8.33		
	2nd Cross Road		2	109	0.15	0.55	17.99		
	LHS								
	RHS		2	92.5	0.15	0.6	16.65		
	3rd Cross Road		2	113.9	0.15	0.6	20.50		
	LHS								
	RHS		2	138	0.15	0.6	24.84		
	4th Cross Road		2	128	0.15	0.6	23.04		
	LHS								
	RHS		2	119	0.15	0.6	21.42		
	4th A Cross Road		2	146.9	0.15	0.6	26.44		
	LHS								
	RHS		2	22	0.15	0.58	3.83		
	4th B Cross Road		2	25.5	0.15	0.6	4.59		
	LHS								
	RHS		2	44	0.15	0.6	7.92		
			2	47.5	0.15	0.6	8.55		
						Cum	324.08	7070.2	2291310.00
	Basic Rate	6670.00							
	Area Weightage @ 6%	400.20							
	Total	7070.20							
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specificatio (I No-28.8.2,P No-229)								
	RCC Drain	Tonne							
	Steel For Drain		56	324.08			18148.48		
						Tonne	18.15	72326.98	1312625.00
	Basic Rate	68233.00							
	Area Weightage @ 6%	4093.98							
	Total	72326.98							
5	Removing & Refixing stone slabs of drains and pointing in C.M (1:3) (Page No 27., I.No.5.33 of KPWD S.R 2018-19).								
		Sqm							
	G.Ramaiah Layout								
	1st Cross Road		1	73	0.9		65.70		
	LHS		1	31.25	0.9		28.13		
	RHS								
	2nd Cross Road		1	45.67	0.9		41.10		
	LHS		1	31.6	0.9		28.44		
	RHS								
	3rd Cross Road		1	33.2	0.9		29.88		
	LHS		1	30.5	0.9		27.45		
	RHS								
	4th Cross Road		1	12.5	0.9		11.25		
	LHS		1	6.5	0.9		5.85		
	RHS								
	4th A Cross Road		1	11	0.9		9.90		
	LHS		1	12	0.9		10.80		
	RHS								
	4th B Cross Road		1	14	0.9		12.60		
	LHS					Sqm	271.10	111.30	30173.00
	Basic Rate	105.00							
	Area Weightage @ 6%	6.30							
	Total	111.30							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	G.Ramaiah Layout	Sqm							
	1st Cross Road								
	LHS								
	RHS		1	47	0.9		42.30		
	2nd Cross Road		1	86.45	0.9		77.81		
	LHS								
	RHS		1	69.9	0.9		62.91		
	3rd Cross Road		1	96.65	0.9		86.99		
	LHS								
	RHS		1	124.8	0.9		112.32		
	4th Cross Road		1	92	0.9		82.80		
	LHS								
	RHS		1	133.5	0.9		120.15		
	4th A Cross Road		1	125.9	0.9		113.31		
	LHS								
	RHS		1	24	0.9		21.60		
	4th B Cross Road		1	38	0.9		34.20		
	LHS								
	RHS		1	6	0.9		5.40		
			1	26	0.9		23.40		
						Sqm	783.18	2337.00	1830292.00
	Data Rate	2337.00							
7	Providining & fixing precaste solid concrete kerb stones of size 450X200X400mm maid out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete. KPWD S.R 2018-19 .Item no 5.29.1, Page no 27								
		No's							
	G.Ramaiah Layout								
	1st Cross Road								
	LHS		1	90.3			90.30		
	RHS		1	109			109.00		
	2nd Cross Road								
	LHS		1	102.5			102.50		
	RHS		1	113.9			113.90		
	3rd Cross Road								
	LHS		1	157			157.00		
	RHS		1	128			128.00		
	4th Cross Road								
	LHS		1	119			119.00		
	RHS		1	146.9			146.90		
	4th A Cross Road								
	LHS		1	22			22.00		
	RHS		1	25.5			25.50		
	4th B Cross Road								
	LHS		1	44			44.00		
	RHS		1	47.5			47.50		
	Subash Chandra Bose Layout,Sai Nagar								
	5th Cross Road								
	LHS		1	115			115.00		
	RHS		1	115			115.00		
	6th Cross Road								
	LHS		1	125			125.00		
	RHS		1	125			125.00		
	3rd Cross Road BHEL Layout								
	RHS		1	120			120.00		
	Subash Chandra Bose Layout,Sai Nagar Main Rd								
	RHS		1	30			30.00		
							1735.60		
						No's	3857.00	477.00	1839789.00
	Basic Rate	450.00							
	Area Weightage @ 6%	27.00							
	Total	477.00							
8	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No.180,I.NO 24.1 of PW,P)								
		Sqm							
	G.Ramaiah Layout								

	CH: 30.00 to 47.50.									
	Subash Chandra Bose Layout, Sai Nagar		1	17.5		0.4	7.00			
	5th Cross LHS									
	CH: 00.00 to 30.00									
	CH: 30.00 to 60.00		1	30		0.4	12.00			
	CH: 60.00 to 90.00		1	30		0.4	12.00			
	CH: 90.00 to 115.00		1	30		0.4	12.00			
	5th Cross RHS		1	25		0.4	10.00			
	CH: 00.00 to 30.00									
	CH: 30.00 to 60.00		1	30		0.4	12.00			
	CH: 60.00 to 90.00		1	30		0.4	12.00			
	CH: 90.00 to 115.00		1	30		0.4	12.00			
	6th Cross LHS		1	25		0.4	10.00			
	CH: 00.00 to 30.00									
	CH: 30.00 to 60.00		1	30		0.4	12.00			
	CH: 60.00 to 90.00		1	30		0.4	12.00			
	CH: 90.00 to 120.00		1	30		0.4	12.00			
	CH: 120.00 to 125.00		1	30		0.4	12.00			
	6th Cross RHS		1	5		0.4	2.00			
	CH: 00.00 to 30.00									
	CH: 30.00 to 60.00		1	30		0.4	12.00			
	CH: 60.00 to 90.00		1	30		0.4	12.00			
	CH: 90.00 to 120.00		1	30		0.4	12.00			
	CH: 120.00 to 125.00		1	30		0.4	12.00			
	3rd Cross Road BHEL Layout RHS		1	5		0.4	2.00			
	CH: 00.00 to 30.00									
	CH: 30.00 to 60.00		1	30		0.4	12.00			
	CH: 60.00 to 90.00		1	30		0.4	12.00			
	CH: 90.00 to 120.00		1	30		0.4	12.00			
	Subash Chandra Bose Layout, Sai Nagar Main Road		1	30		0.4	12.00			
			1	25		0.4	10.00			
	Subash Chandra Bose Layout, Sai Nagar Main Road									
	CH: 00.00 to 30.00		1	30		0.4	12.00			
							723.64	84.80	61364.67	
	Basic Rate	80								
	Area Weightage @ 6%	4.8								
	Total	84.8								
	ROAD WORKS									
9	KSRRB M300-13.Excavation for road way in hard rock (requiring blasting) by drilling and breaking, trimming of bottom and side slopes in accordance with requirements of lines, grades and cross sections, loading and stacking at site of cut road with lead of 1.00 km and complete as per specifications (excavated rock credited to contractor) MORTH specification no 301.									
		CUM								
	Sai Orchard Layout									
	1st Cross CH: 00.00 to 110		1	110	5.3	0.3	174.90			
	2nd Cross CH: 00.00 to 109		1	109	5.3	0.3	173.31			
	3rd Cross Road From 2nd Main Road CH: 00.00 to 110		1	110	5.3	0.3	174.90			
	2nd Main Road From Vaderahalli Road End CH: 00.00 to 148		1	148	5.3	0.3	235.32			
	1st Main Road From Last Chinage CH: 00.00 to 103		1	103	5.3	0.3	163.77			
							1216.84	57.03	69396.39	
	BR Rs.	41.00								
	5Km Lead	12.80								
	Add: AW 6%	3.23								
	Total Rs.	57.03								

10	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 KPWD S.R 2018-19 Page No. 147 I.No. 19.64								
		SQM							
	Sai Orchard Layout								
	1st Cross CH: 00.00 to 110		1	110	5.3		583.00		
	2nd Cross CH: 00.00 to 109		1	109	5.3		577.70		
	3rd Cross Road From 2nd Main Road CH: 00.00 to 110		1	110	5.3		583.00		
	2nd Main Road From Vaderahalli Road End CH: 00.00 to 148		1	148	5.3		784.40		
	1st Main Road From Last Chinage CH: 00.00 to 103		1	103	5.3		545.90		
							4056.14	6.36	25797.0504
	BR Rs.	6.00							
	Add: AW 6%	0.36							
	Total Rs.	6.36							
11	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material,mixing by mix in place method with rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.								
		CUM							
	Sai Orchard Layout								
	1st Cross CH: 00.00 to 110		1	110	5.3	0.15	87.45		
	2nd Cross CH: 00.00 to 109		1	109	5.3	0.15	86.66		
	3rd Cross Road From 2nd Main Road CH: 00.00 to 110		1	110	5.3	0.15	87.45		
	2nd Main Road From Vaderahalli Road End CH: 00.00 to 148		1	148	5.3	0.15	117.66		
	1st Main Road From Last Chinage CH: 00.00 to 103		1	103	5.3	0.15	81.89		
							557.50	1855.00	1567013
	BR Rs.	1750.00							
	Add: AW 6%	105.00							
	Total Rs.	1855.00							
12	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406.								
		CUM							
	Sai Orchard Layout								
	1st Cross CH: 00.00 to 110		1	110	5.3	0.23	134.09		
	2nd Cross CH: 00.00 to 109		1	109	5.3	0.23	132.87		
	3rd Cross Road From 2nd Main Road CH: 00.00 to 110		1	110	5.3	0.23	134.09		
	2nd Main Road From Vaderahalli Road End CH: 00.00 to 148		1	148	5.3	0.23	180.41		
	1st Main Road From Last Chinage CH: 00.00 to 103		1	103	5.3	0.23	125.56		
							912.63	2001.28	1826428.166
	BR Rs.	1888.00							
	Add: AW 6%	113.28							
	Total Rs.	2001.28							

13	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision. (P No. 158, INo. 21.6)								
	Sai Orchard Layout								
	1st Cross CH: 00.00 to 110		1	110	5.3		583.00		
	2nd Cross CH: 00.00 to 109		1	109	5.3		577.70		
	3rd Cross Road From 2nd Main Road CH: 00.00 to 110		1	110	5.3		583.00		
	2nd Main Road From Vaderahalli Road End CH: 00.00 to 148		1	148	5.3		784.40		
	1st Main Road From Last Chinage CH: 00.00 to 103		1	103	5.3		545.90		
							3716.00	33.92	126067.00
	BR Rs.	32.00							
	Add: AW 6%	1.92							
	Total Rs.	33.92							
14	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications. Clause 503 of MORTH V revision.								
		SQM							
	Sai Orchard Layout								
	1st Cross CH: 00.00 to 110		1	110	5.3		583.00		
	2nd Cross CH: 00.00 to 109		1	109	5.3		577.70		
	3rd Cross Road From 2nd Main Road CH: 00.00 to 110		1	110	5.3		583.00		
	2nd Main Road From Vaderahalli Road End CH: 00.00 to 148		1	148	5.3		784.40		
	1st Main Road From Last Chinage CH: 00.00 to 103		1	103	5.3		545.90		
							3716.00	12.72	47267.52
	BR Rs.	12.00							
	Add: AW 6%	0.72							
	Total Rs.	12.72							
15	surface with crushed coarse aggregates as per design mix formulae for base/ binding course including loadng of aggrigated with FE loader, hot mixing of stone aggregates and bitumen in Hot mix plant transporting the mixed material in tipper to the required level and grade, rolling by power roller to achieve desired, but excluding cost of primer / tack coat including lead, lift and cost of all materials, lobour HOM, of machinaries complete as per specifications MORTH ch5. using 40/60 TPH capacity HMP with Mechanical paver Grll (50mm -75mm) with 3.4% VG-30 bitumen (P NO> 158/ Item No-21.11.6)								
		CUM							
	Sai Orchard Layout								

	1st Cross CH: 00.00 to 110		1	110	5.3	0.05	29.15		
	2nd Cross CH: 00.00 to 109		1	109	5.3	0.05	28.89		
	3rd Cross Road From 2nd Main Road CH: 00.00 to 110		1	110	5.3	0.05	29.15		
	2nd Main Road From Vaderahalli Road End CH: 00.00 to 148		1	148	5.3	0.05	39.22		
	1st Main Road From Last Chinage CH: 00.00 to 103		1	103	5.3	0.05	27.30		
	BR Rs.	7008.00					185.83	5962.50	1108011.375
	Add: AW 6%	420.48							
	Total Rs.	7428.48							
16	Providing and laying bituminous concrete 40mm thick with 100-200 TPH batch type asphalt producing an average output of75 tonnes per using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6%of mix and filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH V specification clause No. 500.9 complete in all respects as per specifications. MORTH specification 30-45mm compacted thickness (grading II) with 6% Bitumen 80/100 No. 161/Item No. 21.22.6PWD SR 2018-19.								
		CUM							
	Sai Orchard Layout								
	1st Cross CH: 00.00 to 110		1	110	5.3	0.04	23.32		
	2nd Cross CH: 00.00 to 109		1	109	5.3	0.04	23.11		
	3rd Cross Road From 2nd Main Road CH: 00.00 to 110		1	110	5.3	0.04	23.32		
	2nd Main Road From Vaderahalli Road End CH: 00.00 to 148		1	148	5.3	0.04	31.38		
	1st Main Road From Last Chinage CH: 00.00 to 103		1	103	5.3	0.04	21.84		
	BR Rs.	8332.00					148.66	8622.04	1281786.95
	Add: AW 6%	499.92							
	Total Rs.	8831.92							
17	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.								
		SQM							
	Sai Orchard Layout								
	1st Cross CH: 00.00 to 110		2	110	0.1		22.00		
	2nd Cross CH: 00.00 to 109		2	109	0.1		21.80		
	3rd Cross Road From 2nd Main Road CH: 00.00 to 110		2	110	0.1		22.00		
	2nd Main Road From Vaderahalli Road End CH: 00.00 to 148		2	148	0.1		29.60		
	1st Main Road From Last Chinage CH: 00.00 to 103		2	103	0.1		20.60		
	BR Rs.	429.00					95.60	454.74	43473.14
	Add: AW 6%	25.74							
	Total Rs.	454.74							

18	KSRB M800-35 Suply and Installation of moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) Moulded body and reflective panels with micro prismatic lens cabable of providing total internal reflection of the light entering the lens face and shall support a load of 1600k kgs tested in accordance to specifications of category A of MORTH circular no RW/NH/33023/10-97DO III Date: 11.06.1997. The height, width and length shall not exceed 50mm, 100mm, and 102mm and with minimum reflective area of 13sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integratedcylindrical shanks, (of dia not less than 19mm and height not less than 30mm) from the body is to be a minimun of 500kgs.Fixing will be by drilling holes on the roads for the shanks to go inside without nails using epoxy resin based adhesive as per manufacturer's recomendations and complete as per direction of engineer in charge (P no 187, I No 24.41of PWD BCSR 2018-19)								
		SQM							
	Sai Orchard Layout								
	1st Cross CH: 00.00 to 110		1	20.00			20.00		
	2nd Cross CH: 00.00 to 109		1	20.00			20.00		
	3rd Cross Road From 2nd Main Road CH: 00.00 to 110		1	20.00			20.00		
	2nd Main Road From Vaderahalli Road End CH: 00.00 to 148		1	20.00			20.00		
	1st Main Road From Last Chinage CH: 00.00 to 103		1	4.00			4.00		
	BR Rs.	337.00					74.00	357.22	26434.28
	Add: AW 6%	20.22							
	Total Rs.	357.22							

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
22	For 12% Applicable GST						Grand Total		17066860
23	For 4% KRIDL Charges								2048023
24	For 1% DPR and PMC Charges								682674.4
25	Miscellaneous Charges	L/S							200000
									2442.6
									20000000

Certificate:

1. The work spot has been inspected and the work is found necessary.
2. This estimate is prepared as per PWD SR of 2018-19
3. The provisions were made in this estimate are necessary and adequate.
4. This works come under B.B.M.P. limits.

Junior/Assistant Engineer

AE-3

Executive Engineer
Yelahanka Division

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ಬ ಬ.ಪಾ.ಪ. ಬೆಂಗಳೂರು-106

Assistant Executive Engineer
Yelahanka Sub Division

Administrative Sanction for Rs. 200.00 lacs/kh
Two Crore only
is accorded under head P-3749
GM:- Navanagarothana. 11a-Village
grants Annexure-07
Registered as CE No. .... Subject
to conditions contained in
No EE/YNK/61/2019-20 7/11/2019

Executive Engineer

Technical Sanction
Accorded For RS 200 lakhs
Head of A/C P 3749
CER NO :203 Dt: 08.11.2019

TA CE (YNK)